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SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800

Rev. 1/26/2006 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 22511.

Date 7/9/06 Serial # 10722,547 Priority Application Date 11/28/02

Your Name M. Lewis Examiner # 73172

AU 2822 Phone 202-1838 Room 5A30

In what format would you like your results? Paper is the default. ☒ PAPER ☐ DISK ☐ EMAIL

If submitting more than one search request form, please prioritize the searches in order of need.

Where have you searched so far on this case?

Circle: USPT DWPI EPO Abs JPO Abs IBM TDB

Other: Need before 7/25

What relevant art have you found so far? Please attach citations or Information Disclosure Statements.

What types of references would you like? Please checkmark:

Primary Refs ☒ Nonpatent Literature ☐ Teaching Refs ☐
Secondary Refs ☒ Foreign Patents ☐ Other ☐

Is this a "Fast & Focused Search" request? (Circle One) YES NO

A "Fast & Focused Search" is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2800 and on the STIC NPL Web Page at <http://uspto-a-patrr-2/siraapps/stic/npl/nplsearch.htm>

What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 1-14 + 21
Head transfer device
Problem: See pages 1-5
Solution " " 5-8
Reduce hot spot areas to
suppress or flatten the head
US 6,631,077
2002/0039280

Staff Use Only

Searcher: Michael O'Leary

Searcher Phone: 571-272-2663

Searcher Location: STIC-EIC2800, JEF-4B68

Date Searcher Picked Up: 7/21/2006

Date Completed: 7/24/2006

Searcher Prep/Rev Time: 111

Online Time: 100

Type of Search

Structure (#) ☐

Bibliographic ☒

Litigation ☐

Fulltext ☐

Patent Family ☐

Other ☐

Vendors

STN ☒

Dialog ☒

Questel/Orbit ☐

Lexis-Nexis ☐

WWW/Internet ☐

Other ☐

10/722597

7/24/2006 4:52:54 PM

7/24/2006 4:58:58 PM

[File 342] Derwent Patents Citation Indx 1978-05/200607

s pn=us 6631077

S1 1 S PN=US 6631077

map pn/ct=

SearchSave "SC446" stored

1 Select Statement, 2 Search Term(s)

SearchSave SC446

1 SearchSave(s), 2 Search Term(s)

map pn

SearchSave "SC447" stored

4 Select Statements, 30 Search Term(s)

SearchSave SC447

1 SearchSave(s), 30 Search Term(s)

[File 344] Chinese Patents Abs Jan 1985-2006/Jan

[File 347] JAPIO Nov 1976-2005/Sep(Updated 060103)

[File 350] Derwent WPIX 1963-2006/UD,UM &UP=200607

[File 371] French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	10	S1:S3 FROM 344, 347, 350, 371
S2	0	S S1 AND PY<=2002

10/722597

7/24/2006 11:20:47 AM

7/24/2006 11:59:27 AM

[File 2] INSPEC 1898-2006/Jan W2
[File 6] NTIS 1964-2006/Jan W4
[File 8] Ei Compendex(R) 1970-2006/Jan W4
[File 34] SciSearch(R) Cited Ref Sci 1990-2006/Jan W4
[File 434] SciSearch(R) Cited Ref Sci 1974-1989/Dec
[File 35] Dissertation Abs Online 1861-2006/Jan
[File 65] Inside Conferences 1993-2006/Jan W5
[File 94] JICST-EPlus 1985-2006/Nov W3
[File 99] Wilson Appl. Sci & Tech Abs 1983-2006/Apr
[File 144] Pascal 1973-2006/Jan W2
[File 23] CSA Technology Research Database 1963-2006/Jan
[File 103] Energy SciTec 1974-2006/Jan B1
[File 31] World Surface Coatings Abs 1976-2006/Jan
[File 95] TEME-Technology & Management 1989-2006/Jan W5
[File 68] Solid State & Superconductivity Abstracts 1966-2006/Jan
[File 60] ANTE: Abstracts in New Tech & Engineer 1966-2006/Jan
[File 293] Engineered Materials Abstracts 1966-2006/Jan
[File 239] Mathsci 1940-2005/Feb
[File 256] TECINFOSOURCE 82-2005/DEC

Set Items Description

S1 5198640 S SEMICONDUCTOR? ? OR SEMI()CONDUCTOR? ? OR PCB? ? OR TAB? ? OR
PRINT???()CIRCUIT()BOARD? ? OR CIRCUIT???()BOARD? ? OR LOAD()BOARD? ? OR LOADBOARD? ? OR LSI? ?
OR ASIC? ? OR ELECTRON???()DEVICE? ? OR PRINT???()CIRCUIT??? OR IC? ? OR INTEGRAT???()CIRCUIT???
OR CHIP? ? OR WAFER??? OR MICROCHIP? ? OR MICRO()CHIP? ? OR VLSI? ? OR FLEX????(3N)CIRCUIT OR
FLEX???? OR (LEAD? ? OR WIRE? ? OR WIRING OR LINE? ? OR TRAC???? OR
INTEGRAT????(3N)FLEX????

S2 72546 S CIRCUIT????(3N)(LAYER???? OR FILM???? OR COAT???? OR COVER?????????
OR SHEET???? OR LAMIN???? OR OVERLAY???? OR CHIP OR COVER()LAY???? OR
COVER()COAT???? OR MASK????)

S3 72546 S CIRCUIT????(3N)(LAYER???? OR FILM???? OR COAT???? OR COVER?????????
OR SHEET???? OR LAMIN???? OR OVERLAY???? OR CHIP OR COVER()LAY???? OR
COVER()COAT???? OR MASK????)

S4 3417894 S HEAT????(3N)(LAYER???? OR FILM???? OR COAT???? OR COVER?????????
OR SHEET???? OR LAMIN???? OR OVERLAY???? OR CHIP OR COVER()LAY???? OR
COVER()COAT???? OR MASK????) OR SILIC???? OR SI OR POLYSI????

S5 341900 S CLOS????(3N)(PASSAG???? OR PATH???? OR ROUT???? OR DIRECT????
OR LINE? ? OR OUTLET? ? OR CANAL???? OR CHANNEL???? OR ORIFICE? ?) OR FLOW(3N)(PASSAG???? OR
PATH???? OR ROUT???? OR DIRECT???? OR LINE? ? OR DUCT???? OR OUTLET? ? OR
CANAL???? OR CHANNEL???? OR ORIFICE? ?)

S6 9554866 S FLUID???? OR WATER???? OR LIQUI????

S7 1796070 S VIBRAT???? OR EVAPORAT???? OR BUMP???? OR DRIV????(3N)(MEANS
OR METHOD OR DEVICE OR APPT OR APPARATUS????)

S8 279345 S (RESIST???? OR OHMI????)(3N)(LAYER???? OR FILM???? OR COAT???? OR
COVER???? OR SHEET???? OR LAMIN???? OR OVERLAY???? OR CHIP OR
COVER()LAY???? OR COVER()COAT???? OR MASK????)

S9 879959 S (REDUC???? OR DECREAS???? OR LOWER???? OR ELIMINAT???? OR
MINIM???? OR SUPPRES???? OR REMOV????)(3N)(HOTSPOT? ? OR HOT()SPOT? ? OR HEAT???? OR
THERM???? OR TEMP???? OR HOTNESS)

S10 0 S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7 AND S8

S11 13922 S S1 AND S2 AND S4

S12 462 S S11 AND S9

S13 55 S S12 AND S6

S14 0 S S13 AND S5

S15 9 S S13 AND S7

S16 7 RD (unique items)

S17 4 S S16 AND PY<=2002

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7/24/2006 11:59:27 AM

S18 16 S S1 AND S6 AND S7 AND S8 AND S9

S19 10 RD (unique items)

S20 9 S S19 AND PY<=2002

S21 1267535 S (HEAT?????? OR THERM????? OR HOTNESS OR TEMP???????) (3N) (TRANSFER????????? OR CONDUCT????????? OR REMOV?????????)

S22 13 S S21 AND S2 AND S4 AND S5

S23 13 RD (unique items)

S24 12 S S23 AND PY<=2002

S25 36 S S21 AND S6 AND S7 AND S8 AND S9

S26 0 S S25 AND S5

S27 0 S S25 AND S2

S28 14 S S25 AND S4

S29 9 RD (unique items)

S30 8 S S29 AND PY<=2002

S31 9 S S20 NOT S17

S32 12 S S24 NOT (S17 OR S20)

S33 6 S S30 NOT (S17 OR S20 OR S24)

S34 4 S S25 AND S1

S35 4 RD (unique items)

S36 3 S S35 AND PY<=2002

S37 0 S S36 NOT (S17 OR S20 OR S24 OR S30)

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7/24/2006 2:07:11 PM

7/24/2006 2:45:23 PM

[File 344] Chinese Patents Abs Jan 1985-2006/Jan
[File 347] JAPIO Nov 1976-2005/Sep(Updated 060103)
[File 350] Derwent WPIX 1963-2006/UD,UM &UP=200607
[File 371] French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	2765688	S SEMICONDUCTOR? ? OR SEMI()CONDUCTOR? ? OR PCB? ? OR TAB? ? OR PRINT????()CIRCUIT()BOARD? ? OR CIRCUIT???()BOARD? ? OR LOAD()BOARD? ? OR LOADBOARD? ? OR LSI? ? OR ASIC? ? OR ELECTRON???()DEVICE? ? OR PRINT???()CIRCUIT??? OR IC? ? OR INTEGRAT???()CIRCUIT??? OR CHIP? ? OR WAFER??? OR MICROCHIP? ? OR MICRO()CHIP? ? OR VLSI? ? OR FLEX????(3N)CIRCUIT OR FLEX???? OR (LEAD? ? OR WIRE? ? OR WIRING OR LINE? ? OR TRAC???? OR INTEGRAT????)(3N)FLEX????
S2	113394	S CIRCUIT????(3N)(LAYER???? OR FILM???? OR COAT???? OR COVER???????? OR SHEET???? OR LAMIN???? OR OVERLAY???? OR CHIP OR COVER()LAY???? OR COVER()COAT???? OR MASK????)
S3	1407494	S HEAT????(3N)(LAYER???? OR FILM???? OR COAT???? OR COVER???????? OR SHEET???? OR LAMIN???? OR OVERLAY???? OR CHIP OR COVER()LAY???? OR COVER()COAT???? OR MASK????) OR SILIC???? OR SI OR POLYSI????
S4	379652	S CLOS????(3N)(PASSAG???? OR PATH???????? OR ROUT???????? OR DIRECT???????? OR LINE? ? OR OUTLET? ? OR CANAL???? OR CHANNEL???? OR ORIFICE? ?) OR FLOW(3N)(PASSAG???? OR PATH???????? OR ROUT???????? OR DIRECT???????? OR LINE? ? OR DUCT???? OR OUTLET? ? OR CANAL???? OR CHANNEL???? OR ORIFICE? ?)
S5	4226242	S FLUID???? OR WATER???? OR LIQUI????
S6	1110176	S VIBRAT???????? OR EVAPORAT???????? OR BUMP???? OR DRIV????????(3N)(MEANS OR METHOD OR DEVICE OR APPT OR APPARATUS????)
S7	296519	S (RESIST???? OR OHMI????)(3N)(LAYER???? OR FILM???? OR COAT???? OR COVER???????? OR SHEET???? OR LAMIN???? OR OVERLAY???? OR CHIP OR COVER()LAY???? OR COVER()COAT???? OR MASK????)
S8	451030	S (REDUC???? OR DECREAS???? OR LOWER???? OR ELIMINAT???? OR MINIM???????? OR SUPPRES???? OR REMOV????)(3N)(HOTSPOT? ? OR HOT()SPOT? ? OR HEAT???? OR THERM???????? OR TEMP???????? OR HOTNESS)
S9	110180	IC=(F28D-015/00 OR F28D-015/02 OR F28F-003/12 OR H01L-021/822 OR H01L-023/34 OR H01L-023/427 OR H01-023/473 OR H01L027/04 OR H05K-007/20) FROM 344, 347, 350, 371
S10	814	S MC=(U11-DO2D1 OR V04-T03H)
S11	3	S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7 AND S8
S12	23	S S1 AND S2 AND S3 AND S4 AND S8
S13	12	S S12 AND S5
S14	6	S S13 AND PY<=2002
S15	1008442	S ELECTRONIC??? (2N)EQUIPMENT OR COMPUTER? ?
S16	102	S S15 AND S1 AND S2 AND S3 AND S8
S17	7	S S16 AND S5 AND S6
S18	4	S S17 AND PY<=2002
S19	537394	S (HEAT???? OR THERM???? OR HOTNESS OR TEMP????)(3N)(TRANSFER???????? OR CONDUCT???? OR REMOV???? OR DEVICE?)
S20	2	S S19 AND S15 AND S4 AND S5 AND S6 AND S7
S21	677	S S19 AND S1 AND S2 AND S3 AND S8
S22	29	S S21 AND S5 AND S6
S23	29	S S22 AND S8
S24	5	S S23 AND S7
S25	11	S S22 AND S9
S26	2	S S22 AND S10
S27	5	S S25 AND PY<=2002
S28	6	S S12 AND S9
S29	2	S S12 AND S10
S30	5	S S14 NOT S11
S31	3	S S18 NOT (S11 OR S14)
S32	0	S S20 NOT (S11 OR S14 OR S18)
S33	2	S S24 NOT (S11 OR S14 OR S18 OR S20)
S34	1	S S26 NOT (S11 OR S14 OR S18 OR S20 OR S24)
S35	2	S S27 NOT (S11 OR S14 OR S18 OR S20 OR S24 OR S26)
S36	2	S S28 NOT (S11 OR S14 OR S18 OR S20 OR S24 OR S26 OR S27)
S37	1	S S29 NOT (S11 OR S14 OR S18 OR S20 OR S24 OR S26 OR S27 OR S28)